

OptiKa HF

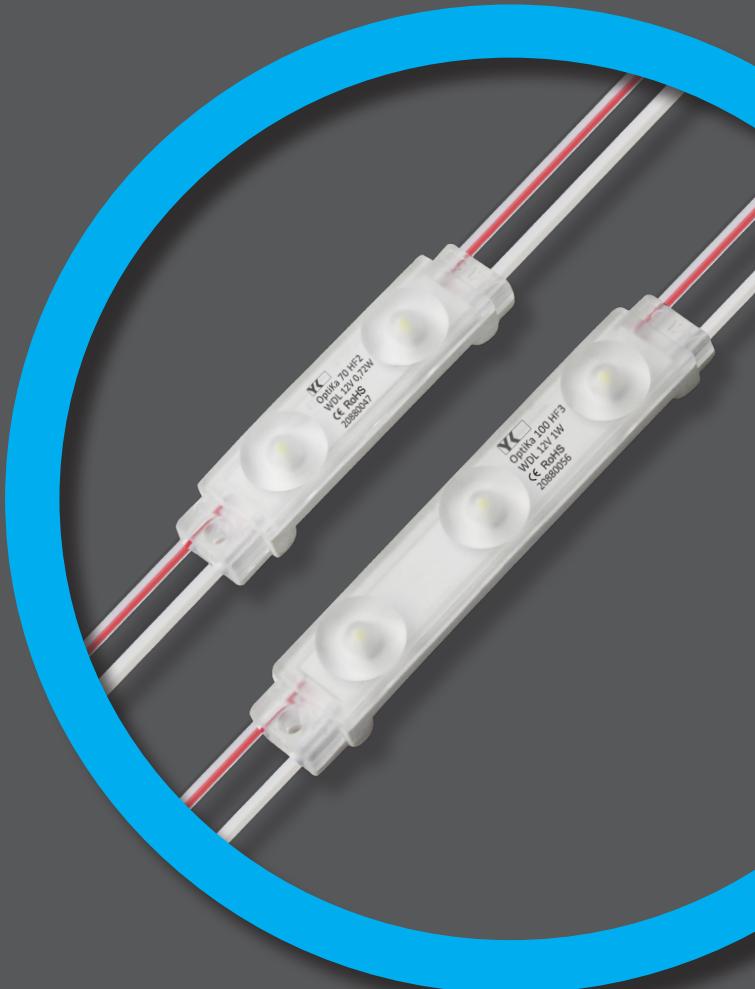
Signage – Backlighting

70-80-100

5 YEARS
50.000 hrs
L50

Top Value and Premium Optics
LED modules that magnify
your bottom line

- 160° IRISLENS® special-design optical lens
- Very flat and robust IP66 design
- Great performance/price ratio
- Very-efficient: Up to 106 lm/W
- Available in 5 Whites and 5 Colors



OptiKa 70-80-100 HF 2-3

FEATURES & BENEFITS

- Optimised lens for backlighting surfaces or letters with few modules. Depth range from 50 to 200mm or 2 to 8 in.
- Flexible chains with 50 or 20 modules - cuttable anywhere
- 160° IRISLENS special-design optics for superior light distribution and uniformity
- IP66 rated for outdoor applications
- Durability: Robust body made of ABS and PC lens , both UV rated
- 106 lm/W efficiency brings your customer high energy savings
- Available in 5 Whites and 5 colors
- CRI up to 85
- DC 12V
- All modules are equipped with regulation components (11-14V) to ensure that any fluctuation of the output voltage from the converter would not affect the lumen output, increase of temperature or life time of the module.
- 3M VHB 4950 adhesive-tape and screw-hole for mechanical fixation
- 100% aging test
- Wide operating temperature from -25° to +55°C

NORMS & CERTIFICATES

- EN 55015:2013+A1:2015
- EN 61547:2009
- EN 61000-3-2:2014
- EN 61000-3-3:2013



LIFETIME & WARRANTY

- Warranty: 5 years
- 3 years (only for pink)
- Lifetime: 50.000 hours at L50

TECHNICAL DATA

Code	Designation	Color	ColorTemp / wavelength	Voltage (V)	Typical power/mod (W)	Lumen output (lm/module)	Efficiency (lm/W)	Mod- ules / chain	Modules max in series	Module distance - axe to axe (mm / in)
20880045	OptiKa 70 HF2 XW 50mod 200mm 0,72W 12V IP66	XW	12000-14000K	12	0,72	59	82	50	50	200±5 / 7,87"
20880046	OptiKa 70 HF2 OW 50mod 200mm 0,72W 12V IP66	OW	7000-8000K	12	0,72	65	90	50	50	200±5 / 7,87"
20880047	OptiKa 70 HF2 WDL 50mod 200mm 0,72W 12V IP66	WDL	5500-6500K	12	0,72	69	96	50	50	200±5 / 7,87"
20880048	OptiKa 70 HF2 NW 50mod 200mm 0,72W 12V IP66	NW	4000-4500K	12	0,72	68	95	50	50	200±5 / 7,87"
NC	OptiKa 70 HF2 WW 50mod 200mm 0,72W 12V IP66	WW	2800-3200K	12	0,72	65	90	50	50	200±5 / 7,87"
20880049	OptiKa 70 HF2 R 50mod 200mm 0,72W 12V IP66	R	620-630nm	12	0,72	12	17	50	50	200±5 / 7,87"
20880050	OptiKa 70 HF2 G 50mod 200mm 0,72W 12V IP66	G	518-523nm	12	0,72	30	42	50	50	200±5 / 7,87"
20880051	OptiKa 70 HF2 B 50mod 200mm 0,72W 12V IP66	B	465-470nm	12	0,72	8	12	50	50	200±5 / 7,87"
NC	OptiKa 70 HF2 O 50mod 200mm 0,72W 12V IP66	O	605-615nm	12	0,72	11	15	50	50	200±5 / 7,87"
20880076	OptiKa 70 HF2 P 50mod 200mm 0,72W 12V IP66	P	447,5-450nm	12	0,72	20	28	50	50	200±5 / 7,87"
20880102	OptiKa 80 HF2 OW 50mod 200mm 0,73W 12V IP66	OW	7000-8000	12	0,73	77	106	50	50	200±5 / 7,87"
20880088	OptiKa 80 HF2 WDL 50mod 200mm 0,73W 12V IP66	WDL	5500-6500K	12	0,73	77	106	50	50	200±5 / 7,87"
20880052	OptiKa 100 HF3 XW 20mod 220mm 1W 12V IP66	XW	12000-14000K	12	1	89	89	20	20	220±5 / 8,7"
20880055	OptiKa 100 HF3 OW 20mod 220mm 1W 12V IP66	OW	7000-8000K	12	1	95	95	20	20	220±5 / 8,7"
20880056	OptiKa 100 HF3 WDL 20mod 220mm 1W 12V IP66	WDL	5500-6500K	12	1	101	101	20	20	220±5 / 8,7"
20880057	OptiKa 100 HF3 NW 20mod 220mm 1W 12V IP66	NW	4000-4500K	12	1	101	101	20	20	220±5 / 8,7"

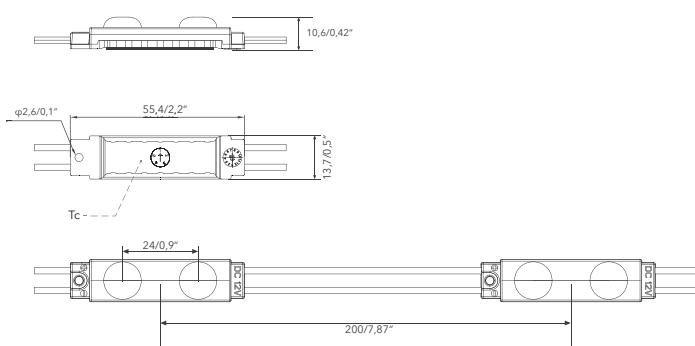
*CRI ≥ 80

*Tolerance range for optical and electrical data: ±15 %.

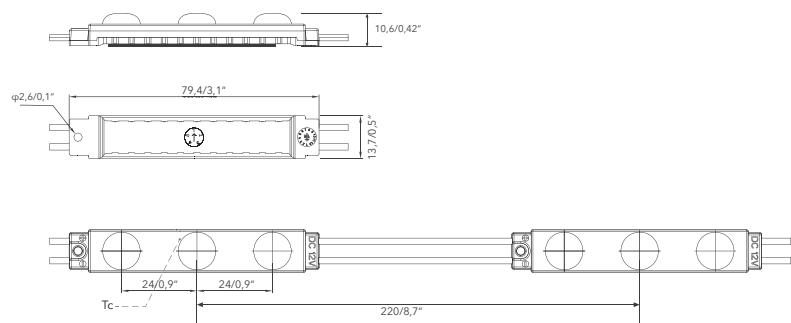
OptiKa 70-80-100 HF 2-3

DIMENSIONS

OptiKa 70-80 HF2

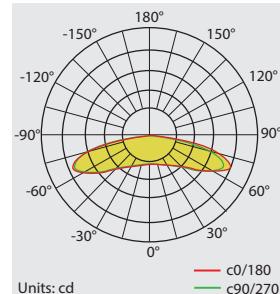


OptiKa 100 HF3

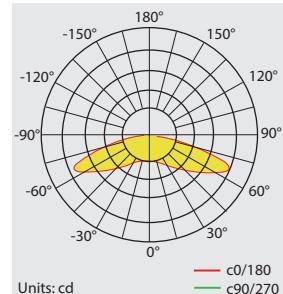


LIGHT DISTRIBUTION

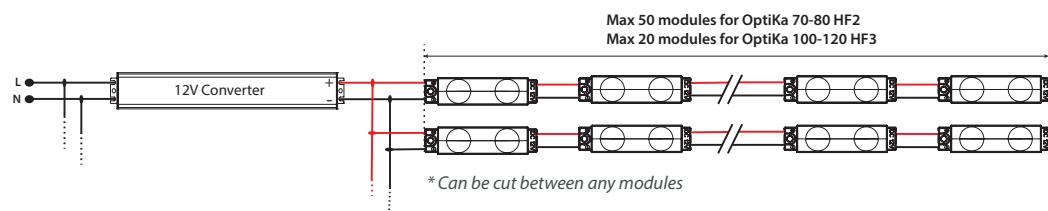
OptiKa 70-80 HF2



OptiKa 100 HF3



WIRING DIAGRAM



APPLICATION

RECOMMENDED MODULES PER TYPE OF SIGNAGE

TYPE	Depth of letter or box to be illuminated (mm)					
	BlockLED (30mm)	<50mm < 2in	50 to 80mm 2 to 3in	80 to 120mm 3 to 4,7in	120 to 150mm 4,7 to 6 in	>150mm >6 in
OptiKa 70-80 HF2	*	**	***	**		
OptiKa 100 HF3		**	***	***		

* To be tested

** Possible under conditions

*** Optimum

OptiKa 70-80-100 HF 2-3

INGRESS PROTECTION IP66

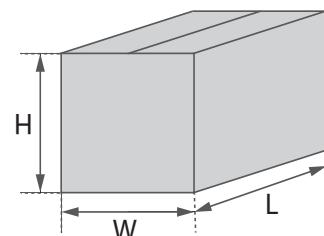
- Product is designed to be used Indoors or Outdoors.
- The specified environmental protection of the LED module enclosure means that:
- It is totally protected against the ingress of dust, and protected against powerful water jets (100 liters per minute) projected by a nozzle against enclosure from any direction.
- Make sure the application (sign, box, etc.) where the LED modules are installed into, has proper drain holes for water to exit so that LED modules and any other electronic components are not submerged exceeding the IP66 certification limits.

INSTALLATION

- Always connect the LED modules to the power supply while it is OFF. Only then you can connect the power supply to electricity and turn it ON.
- Respect the maximum number of modules in a row.
- Check compatibility between LED and driver voltage.
- Install LED on a clean work station connected to the earth. All LEDs are sensitive to static electricity (ESD).
- Limit the cable length between LED and power supply (voltage drop).
- Do not make direct pressure on LED chip, this could damage the internal connection.
- Secure LED module lines with mechanical fixation (screws, glue ...) in addition to the adhesive tape.

PACKAGING

	Type	SIZE - LxWxH (cm)	SIZE - LxWxH (ft)	Weight (Kg)	Weight (lb)	Nb of Pcs / box
CARTON	OptiKa 70-80 HF2	52x37x26	1,7x1,2x0,8	15,5	23,4	28
	OptiKa 100 HF3	52x37x26	1,7x1,2x0,8	14,2	31,3	50



THERMAL BEHAVIOUR

The temperature limits indicated below are expressed in °C, at full load, after 3 hrs of operation conditions, with natural convection:

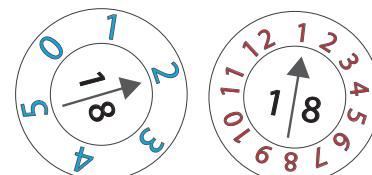
- | | |
|---|----------------------|
| ► Operation temperature | T _a +55°C |
| ► Storage temperature | T _s +70°C |
| ► Max. temperature t _c point | T _c +60°C |

The life of the module will decrease when the maximum temperature limits are exceeded.
If LEDs are operated for a continuous extended time at temperatures that exceed the maximum limits, the modules can fail.

Our Warranty will be void when LED modules are operated exceeding the maximum values indicated.

IDENTIFICATION

- You can find the following production date code at the back of the module.



Production's month 1

Production's week 2

Production's year 2018